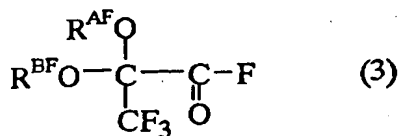
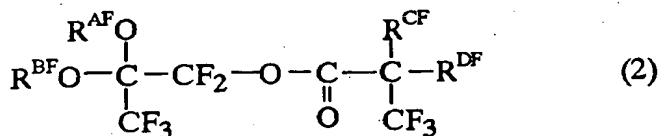
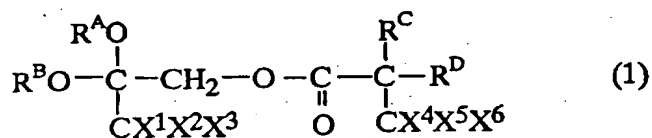
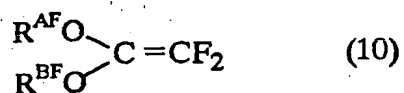


ABSTRACT OF THE DISCLOSURE

The present invention provides novel processes for preparing a fluorinated acyl fluoride and a fluorinated vinyl ether.

- 5 Namely, it provides a process for preparing a fluorinated acyl fluoride (3), which comprises reacting a compound (1) having a fluorine content of 30 mass% or above with fluorine in a liquid phase to form a compound (2) and then dissociating the ester bond in the compound (2), and a process for preparing a fluorinated vinyl ether (10), which comprises pyrolyzing the fluorinated acyl fluoride:





wherein R^{A} and R^{B} are alkyl groups or the like, or the combination R^{A} and R^{B} is an ethereal oxygen-containing alkylene group or the like, R^{C} and R^{D} are

5 perfluoro(ethereal oxygen-containing alkyl) groups or the like, or the combination of R^{C} and R^{D} is a perfluoro(ethereal oxygen-containing alkylene) group or the like, X^1 , X^2 , X^3 , X^4 , X^5 and X^6 are hydrogen atoms, fluorine atoms or the like, R^{AF} , R^{BF} , R^{CF} and R^{DF} are

10 groups derived respectively from R^{A} , R^{B} , R^{C} and R^{D} by replacing substantially all of the hydrogen atoms by fluorine atoms.